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(54) Title: METHOD AND APPARATUS OF USING OPTICAL DISTORTION IN A DIRECTED COUNTERMEASURE SYSTEM TO PROVIDE A VARIABLE FIELD OF VIEW

(57) Abstract: A single, hard-mounted set of optics is utilized to replace a two field-of-view system for directed countermeasures. It includes within one continuous but distorted field of view the capability to detect, acquire and characterize targets at the edge of the field while precisely tracking with high target fidelity at the field center. With multiple targets, both tracking of a primary target and acquisition of a secondary target can occur simultaneously, greatly improving countermeasure effectiveness.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/33288

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G02B 27/40, 27/64, 7/04; G01C 21/02, 21/24; H01J 3/14, 40/14, 5/16

US CL : 250/203.1, 203.6, 206.1, 206.2, 216;356/139.04, 139.05

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 250/203.1, 203.6, 206.1, 206.2, 216;356/139.04, 139.05

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,123,287 A (BOZEMAN et al) 26 September 2000 (26.09.2000), column 1, lines 45-59; column 2, lines 6-34; column 7, lines 42-67; column 8, lines 1-6.	1-4, 10, 12-15, 18, 20
Y		5-9, 11, 16-17, 19
Y	US 3,987,297 (BRIENZA et al) 19 October 1976 (19.10.1976), figure 1, column 4, lines 6-22.	5-9, 11, 16-17, 19
A	US 6,410,897 B1 (O'NEILL et al) 25 June 2002 (25.06.2002).	

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Further documents are listed in the continuation of Box C.

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See patent family annex.

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"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O"	document referring to an oral disclosure, use, exhibition or other means		
"P"	document published prior to the international filing date but later than the priority date claimed		

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